

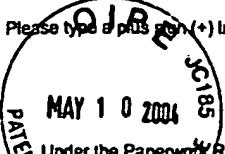
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 Substitution of 1449A/PTO				Complete if Known	
				Application Number	10/676,727
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Filing Date	September 30, 2003
				Confirmation Number	2946
				First Named Inventor	VERKMAN, ALAN
				Group Art Unit	1614
				Examiner Name	SPINACK
Sheet	1	of	4	Attorney Docket Number	UCSF-291

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Documents		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
PS		4,965,155	B1	Nishiouchi et al.	10/23/1990	
PS		2002/0049211	A1	Sobolov-Javnes et al.	04/25/2002	
PS		2002/0049214	A1	Gibbs et al.	04/25/2002	
PS		6,380,186	B1	Howard	04/30/2002	
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PS		2002/0091117	A1	Howard	07/11/2002	
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PS		2002/0091119	A1	Howard	07/11/2002	
PS		6,423,708	B1	Gibbs et al.	07/23/2002	

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Examiner Initials ¹	Cite No. ¹	Foreign Patent Documents		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
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PS		JP	1-156752	A	06/20/1989		
PS		JP	1-173065	A	07/07/1989		
PS		JP	1-172836	A	07/07/1989		

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PS		Abdel-Rahman et al., "Heterodiene Synthesis I Reaction of 5-Arylidenerhodanine Derivatives with 1-Morpholinocyclohexene Enamine", Synthetic Communications 19(3&4) pgs 345-354 (1989).			
PS		Abdel-Rahman et al., "A Chemical Evidence Supporting the Formation of Dihydropyran Aucts from the Reaction of 5-Arylidenerhodanines with 1-Morpholinocyclohexene through zwitterionic Intermediate", Afinidad L. 50(445), pgs. 155-159 (1993).			
PS		Abdel-Rahman, "Dihydropyrans form the Heterodienic Reaction of 5-Arylidenerhodanine Derivatives with Isoprene", Chem Papers 47(6) 385-387 (1993).			
PS		Cabantchik et al., "Chemical Probes for Anion Transporters of Mammalian Cell Membranes", Invited Review The American Physiological Society pgs. C803-C827 (1992).			

Examiner Signature	<i>P. Spinack</i>	Date Considered	2/17/06
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

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Substitute for form T449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	2	of	4	Application Number	10/262,573
				Filing Date	September 30, 2002
				First Named Inventor	VERKMAN, ALAN
				Group Art Unit	1614
				Examiner Name	
				Attorney Docket Number	UCSF-291

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s). <small>Publication date and/or patent numbers attached</small>
PS		Edwards et al., "Induction of a Glibenclamide-sensitive K-current by Modification of a Delayed Rectifier Channel in Rat Portal Vein and Insulinoma Cells" Br. J. Pharmacol. 110, 1280-1281 (1993).
PS		El-Shafie et al., "Applications of Phase-Transfer Catalysis In Reactions with Rhodanine Derivatives", Gazzetta Chimica Italiana, 120, pgs. 197-201 (1990).
PS		Gabriel et al., "Cystic Fibrosis Heterozygote Resistance to Cholera Toxin in the Cystic Fibrosis Mouse Model", Science Volume 266, pgs 107-109 (1994).
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PS		Gorbach et al., "Acute Undifferentiated Human Diarrhea in the Tropics", The Journal of Clinical Investigations" Volume 50, pp. 881-889 (1971).
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PS		Gupta et al., "Synthesis and Fungitoxicity of Some 5-Substituted-3-Polynitrophenyl Rhodanines", J. Indian Chem Soc. Vol LV, pp. 483-485. (1978).
PS		Hongre et al., "Effects of Sulphonylureas on camp-Stimulated Cl- Transport Via the Cystic Fibrosis Gene Product in Human Epithelial Cells", Pflugers Arch 426: 284-287 (1994).
PS		Jayaraman et al., "Submucosal Gland Secretions in Airways From Cystic Fibrosis Patients Have Normal [Na+] and pH But Elevated Viscosity", PNAS VO: 98 No.14 8119-8123 (July 2001).
PS		Khalil et al., "The Action of Arlamines on 3-Aryl-5-Arylmethylenerhodanines", Revue Roumaine de Chimie 23, 6, pp. 935-941 (1978).
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PS		Ladnaya et al., "Synthesis and Properties of Thiazolidones-4 Obtained From Phenamine II. Thiasolidindions-2,4", Lvov Medical Institute pp. 37-41

Examiner Signature	P. Spivack	Date Considered	2/17/06
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Substitute for form 1449B/PTO

Complete if Known

Application Number	10/262,573
Filing Date	September 30, 2002
First Named Inventor	VERKMAN, ALAN
Group Art Unit	1614
Examiner Name	Unassigned

Sheet

3

of

4

Attorney Docket Number

UCSF-291

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

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PS		Lohi et al., "Upregulation of CFTR Expression but not SLC26A3 and SLC9A3 in Ulcerative Colitis", American Journal Physiol Gastrointest Liver Physiology 283 G567-G575 (2002).	
PS		Makhlouf et al., "New Antimicrobial Rhodanines" Pharmazie. 51, 430-431 (1996).	
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PS		Oi et al., "Identification in Traditional herbal Medications and Confirmation by Synthesis of Factors that Inhibit Cholera Toxin-Induced Fluid Accumulation", PNAS Vol. 99 No. 5 3042-3046 (March, 2002).	
PS		Omar et al., "The Role of Substituents at Position 03 on the Mode of Cleavage of 5-Arylmethylene-2, 4-dioxothiazolidines", Journal f. prakt. Chemie. Band 331, Heft 3, 1989, S393-S398 (1989).	
PS		Pilewski et al., "Role of CFTR in Airway Disease" Physiological Reviews Vol 79, Suppl No. 1, pgs. S215-S255 (January, 1999).	
PS		Rabe et al., "Cl- Channel Inhibition by Glibenclamide Is Not Specific for the CFTR-type Cl- Channel", Pflugers Arch-Eur J. Physiol 429: 659-662 (1995).	
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Examiner Signature

P. Spinack

Date Considered

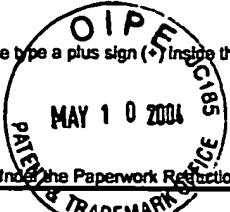
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Sheet	4	of	4	Attorney Docket Number	UCSF-291

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PS		Tejchman et al., "Introduction of Selenium to Heterocyclic Compounds. Part VI. Synthesis of 3-Aryl-5-benzylidene- and", Polish J. Chem., 70, 1124-1134 (1996).	
PS		Tiwari et al., "Synthesis and Fungicidal Activity of Some 3,7-diaryl-6-cyanorhodanino[4,5-b]pyridin-5.....", Indian Journal of Chemistry Vol. 28B pp. 798-798 (1989).	
PS		Wong et al., "CFTR Gene and Male Fertility", Molecular Human Reproduction Vol. 4, No. 2 pp. 107-110 (1998).	
PS		Yadav et al., "Synthesis and Fungitoxicity of Rationally Designed Thiazolo-1,3-dithiins, -thiazines , and oxathiins" J. Agric. Food Chem 40, pp. 1214-126 (1992).	
PS		Yamada et al., "Dai-2-bu", Utsunomiya Daigaku Kyoikugakubu Kiyo", 34:33-41 (1983).	
PS		Yamazaki et al., "Inhibitory Effects of Glibenclamide on Cystic Fibrosis Transmembrane Regulator, Swelling-Activated, and Ca ²⁺ -Activated Cl- Channels in Mammalian Cardiac Myocytes" Circulation Research Vo. 81(1) pp. 101-109. (July 1997).	
PS		Appendix C – Thiazolidinone Chemical Structure Search (Identified References) Pages 1-70 (2002).	

Examiner Signature	P. Spivack	Date Considered	2/17/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/676,727
				Filing Date	September 30, 2003
				First Named Inventor	VERKMAN, ALAN
				Group Art Unit	1614
				Examiner Name	SPIVACK
Sheet	1	of	1	Attorney Docket Number	UCSF-291

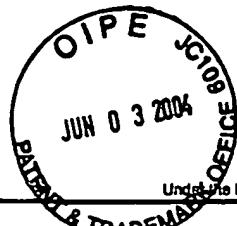
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				Filing Date	September 30, 2003
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				Art Unit	1614
				Examiner Name	Asst. Ex. SPIVACK
Sheet	1	of	1	Attorney Docket Number	JCSF-291

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PS		Database HCAPLUS on STN Online, No. 2002:932809, MA et al., "Thiazolidinone CFTR Inhibitor Identified by High-Throughput Screening Blocks Cholera Toxin-Induced Intestinal Fluid Secretion," abstract, Journal of Clinical Investigation, 2002, Vol. 110, No. 11, pages 1651-1658, (Abstract).	
PS		Database HCAPLUS on STN Online, No. 1978:597389, GUPTA et al. "Synthesis and Fungitoxicity of some 5-substituted 3-poly (nitrophenyl) rhodanines," abstract, Journal of the Indian Chemistry Society, 1978, vol. 55, No. 5, pages 483-5, (Abstract).	
PS		Database HCAPLUS on STN Online, No. 2002:664146, ROMAN et al. "Synthesis and Antiinflammatory Activity of 3-aryl-5-arylidene-thioxothiazolidine-4-ones," abstract, Framatsevichnii Zhurnal (Kiev), 2002, Vol. 3, pages 56-59, (Abstract).	

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